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OM protein - protein search, using sw model

Run on: March 25, 2003, 08:29:52 ; Search time 145 seconds
(without alignments)
62.250 Million cell updates/sec

Title: US-09-982-259-7
Perfect score: 72
Sequence: 1 GMTFRAQEGAFLTG 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_Main:*

- 1: /cgn2_6/ptodata/2/paa/PCTUS_COMB.pep.*
- 2: /cgn2_6/ptodata/2/paa/US06_COMB.pep.*
- 3: /cgn2_6/ptodata/2/paa/US07_COMB.pep.*
- 4: /cgn2_6/ptodata/2/paa/US080_COMB.pep.*
- 5: /cgn2_6/ptodata/2/paa/US081_COMB.pep.*
- 6: /cgn2_6/ptodata/2/paa/US082_COMB.pep.*
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- 9: /cgn2_6/ptodata/2/paa/US085_COMB.pep.*
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- 24: /cgn2_6/ptodata/2/paa/US100_COMB.pep.*
- 25: /cgn2_6/ptodata/2/paa/US101_COMB.pep.*
- 26: /cgn2_6/ptodata/2/paa/US102_COMB.pep.*
- 27: /cgn2_6/ptodata/2/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	72	100.0	14	23	US-09-982-259-7
2	72	100.0	14	23	US-09-982-264-7
3	72	100.0	14	23	US-09-982-265-7
4	72	100.0	14	23	US-09-982-287-7
5	69	95.8	264	21	US-09-791-537-53742
6	46	63.9	350	21	US-09-791-537-132024

7	42	58.3	127	24	US-10-015-127-12806	Sequence 12806, A
8	41	56.9	111	8	US-08-466-897-43	Sequence 43, Appl
9	41	56.9	111	8	US-08-469-630-43	Sequence 43, Appl
10	41	56.9	111	8	US-08-471-654-43	Sequence 43, Appl
11	41	56.9	222	21	US-09-791-537-10159	Sequence 10159, A
12	41	56.9	222	21	US-09-791-537-59556	Sequence 59556, A
13	41	56.9	231	18	US-09-489-039A-10973	Sequence 10973, A
14	41	56.9	232	16	US-09-252-691-9285	Sequence 9285, Ap
15	41	56.9	232	16	US-09-252-691C-9285	Sequence 9285, Ap
16	41	56.9	247	1	PCT-US00-00364-9	Sequence 9, Appli
17	41	56.9	247	18	US-09-479-040-9	Sequence 9, Appli
18	41	56.9	247	21	US-09-791-537-65937	Sequence 65937, A
19	40	55.6	181	26	US-10-219-999-37957	Sequence 37957, A
20	40	55.6	181	27	US-60-324-109-24549	Sequence 24549, A
21	40	55.6	252	16	US-09-248-796-20140	Sequence 20140, A
22	40	55.6	252	27	US-60-096-409-20140	Sequence 20140, A
23	40	55.6	494	27	US-60-389-987-1660	Sequence 1660, Ap
24	40	55.6	494	27	US-60-412-418-1660	Sequence 1660, Ap
25	40	55.6	604	18	US-09-488-725A-3373	Sequence 3373, Ap
26	40	55.6	621	1	PCT-US01-08656-10907	Sequence 10907, A
27	40	55.6	621	1	PCT-US01-14827-15473	Sequence 15473, A
28	40	55.6	624	18	US-09-488-725A-6945	Sequence 6945, Ap
29	40	55.6	625	1	PCT-US01-08631-52248	Sequence 52248, A
30	39.5	54.9	4928	20	US-09-603-207-5	Sequence 5, Appli
31	39	54.2	328	25	US-10-132-134-23	Sequence 23, Appl
32	39	54.2	561	1	PCT-US01-08631-34398	Sequence 34398, A
33	39	54.2	4968	21	US-09-708-427-14364	Sequence 14364, A
34	39	54.2	5034	21	US-09-708-427-14363	Sequence 14363, A
35	39	54.2	5138	21	US-09-708-427-14362	Sequence 14362, A
36	38.5	53.5	613	17	US-09-331-568-25	Sequence 25, Appl
37	38.5	53.5	613	17	US-09-331-568A-25	Sequence 25, Appl
38	38.5	53.5	629	1	PCT-US02-03987-11063	Sequence 11063, A
39	38.5	53.5	629	22	US-09-815-242-11063	Sequence 11063, A
40	38.5	53.5	629	24	US-10-072-851-11063	Sequence 11063, A
41	38	52.8	262	20	US-09-614-150-6177	Sequence 6177, Ap
42	38	52.8	262	24	US-10-032-189-89	Sequence 89, Appl
43	38	52.8	263	27	US-60-191-637-6195	Sequence 6195, Ap
44	38	52.8	341	21	US-09-791-537-94082	Sequence 94082, A
45	38	52.8	360	21	US-09-791-537-76491	Sequence 76491, A

ALIGNMENTS

RESULT 1
US-09-982-259-7
; Sequence 7, Application US/09982259
; GENERAL INFORMATION:
; APPLICANT: Qiu, Bo
; APPLICANT: Stein, Stanley
; APPLICANT: Brunner, Michael
; APPLICANT: Katz, Michael
; APPLICANT: Zhang, Guobao
; APPLICANT: Sigal, Leonard
; TITLE OF INVENTION: Borellia burgdorferi Epitope Peptides
; FILE REFERENCE: 271/289
; CURRENT APPLICATION NUMBER: US/09/982,259
; CURRENT FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Borellia burgdorferi
US-09-982-259-7

Query Match 100.0%; Score 72; DB 23; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GMTFRAQEGAFLTG 14
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DB 1 GMTFRAQEGAFLTG 14

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RESULT 2
US-09-982-264-7
; Sequence 7, Application US/09982264
; GENERAL INFORMATION:
; APPLICANT: Qiu, Bo
; APPLICANT: Stein, Stanley
; APPLICANT: Brunner, Michael
; APPLICANT: Katz, Michael
; APPLICANT: Zhang, Guobao
; APPLICANT: Sigal, Leonard
; TITLE OF INVENTION: Immunological Test Kit with Borellia burgdorferi Epitope
; FILE REFERENCE: 271/288
; CURRENT APPLICATION NUMBER: US/09/982,264
; CURRENT FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Borellia burgdorferi
; US-09-982-264-7

Query Match          100.0%; Score 72; DB 23; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMTFRAQEGAFLTG 14
Db 1 GMTFRAQEGAFLTG 14

RESULT 3
US-09-982-265-7
; Sequence 7, Application US/09982265
; GENERAL INFORMATION:
; APPLICANT: Qiu, Bo
; APPLICANT: Stein, Stanley
; APPLICANT: Brunner, Michael
; APPLICANT: Katz, Michael
; APPLICANT: Zhang, Guobao
; APPLICANT: Sigal, Leonard
; TITLE OF INVENTION: Immunological Test Kit with Immunologically Invisible Carrier
; FILE REFERENCE: 271/287
; CURRENT APPLICATION NUMBER: US/09/982,265
; CURRENT FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Borellia burgdorferi
; US-09-982-265-7

Query Match          100.0%; Score 72; DB 23; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMTFRAQEGAFLTG 14
Db 1 GMTFRAQEGAFLTG 14

RESULT 4
US-09-982-287-7
; Sequence 7, Application US/09982287
; GENERAL INFORMATION:
; APPLICANT: Qiu, Bo
; APPLICANT: Stein, Stanley
; APPLICANT: Brunner, Michael
; APPLICANT: Katz, Michael
; APPLICANT: Zhang, Guobao
```

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; APPLICANT: Sigal, Leonard
; TITLE OF INVENTION: Multiple Epitopes Connected by Carrier
; FILE REFERENCE: 271/090
; CURRENT APPLICATION NUMBER: US/09/982,287
; CURRENT FILING DATE: 2001-10-17
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Borellia burgdorferi
; US-09-982-287-7

Query Match          100.0%; Score 72; DB 23; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMTFRAQEGAFLTG 14
Db 1 GMTFRAQEGAFLTG 14

RESULT 5
US-09-791-537-53742
; Sequence 53742, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53742
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Borrelia garinii
; US-09-791-537-53742

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Best Local Similarity 92.9%; Pred. No. 0.00023;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GMTFRAQEGAFLTG 14
Db 115 GMTFRSQEGAFLTG 128

RESULT 6
US-09-791-537-132024
; Sequence 132024, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 132024
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Bacillus subtilis
; US-09-791-537-132024

Query Match          63.9%; Score 46; DB 21; Length 350;
Best Local Similarity 61.5%; Pred. No. 9;
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Matches 8; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 MTFRAQEGAFLTG 14
:|||: |||: |||: |
Db 134 ITFKEQEGSFLVG 146

RESULT 7

US-10-015-127-12806
; Sequence 12806, Application US/10015127
; GENERAL INFORMATION:
; APPLICANT: Bower, Stanley G.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; TITLE OF INVENTION: Sphingomonas elodea genome sequences and uses thereof
; FILE REFERENCE: 38-10(15806)B
; CURRENT APPLICATION NUMBER: US/10/015,127
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US 60/252,455
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 14357

SEQ ID NO 12806
LENGTH: 127
TYPE: PRT

; ORGANISM: Sphingomonas elodea
US-10-015-127-12806

Query Match 58.3%; Score 42; DB 24; Length 127;
Best Local Similarity 61.5%; Pred. No. 16;
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 MTFRAQEGAFLTG 14
:|||: |||: |||: |
Db 61 LTFDWDGVELTG 73

RESULT 8

US-08-466-897-43
; Sequence 43, Application US/08466897
; GENERAL INFORMATION:
; APPLICANT: Tsui, Lap-Chee
; APPLICANT: Riordan, John R.
; APPLICANT: Rommens, Johanna M.
; APPLICANT: Kerem, Bat-Sheva
; APPLICANT: Collins, Francis S.
; APPLICANT: Iannuzzi, Michael C.
; APPLICANT: Drumm, Mitchell L.
; APPLICANT: Buckwald, Manuel
; TITLE OF INVENTION: Cystic Fibrosis Gene
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,897
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REFERENCE/DOCKET NUMBER: 1329.0010007
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
US-08-466-897-43

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Best Local Similarity 62.5%; Pred. No. 21;
Matches 10; Conservative 1; Mismatches 3; Indels 2; Gaps 1;

QY 1 GMTFRAQEG--AFLTG 14
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Db 11 GVTTFMQPGEMAFLTG 26

RESULT 9

US-08-469-630-43
; Sequence 43, Application US/08469630
; GENERAL INFORMATION:
; APPLICANT: Tsui, Lap-Chee
; APPLICANT: Riordan, John R.
; APPLICANT: Rommens, Johanna M.
; APPLICANT: Kerem, Bat-Sheva
; APPLICANT: Collins, Francis S.
; APPLICANT: Iannuzzi, Michael C.
; APPLICANT: Drumm, Mitchell L.
; APPLICANT: Buckwald, Manuel
; TITLE OF INVENTION: Cystic Fibrosis Gene
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,630
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REFERENCE/DOCKET NUMBER: 1329.0010005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 111 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
US-08-469-630-43

Query Match 56.9%; Score 41; DB 8; Length 111;
Best Local Similarity 62.5%; Pred. No. 21;
Matches 10; Conservative 1; Mismatches 3; Indels 2; Gaps 1;

QY 1 GMTFRAQEG--AFLTG 14
:|||: | | | | |
Db 11 GVTTFMQPGEMAFLTG 26

4

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER

; FILE OF INVENTION: CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.135

; CURRENT APPLICATION NUMBER: US/09/252.691B

; CURRENT FILING DATE: 1999-02-18

; NUMBER OF SEQ ID NOS: 11324

; SEQ ID NO 9285

; LENGTH: 232

; TYPE: PRT

; ORGANISM: Enterobacter cloacae

US-09-252-691-9285

Query Match 56.9%; Score 41; DB 16; Length 232;

Best Local Similarity 62.5%; Pred. No. 51;

Matches 10; Conservative 1; Mismatches 3; Indels 2; Gaps 1;

Qy 1 GMTFRAQEG--AFLTG 14

Db 29 GVTFHLPQGEAFLTG 44

RESULT 15

US-09-252-691C-9285

Sequence 9285, Application US/09252691C

; GENERAL INFORMATION:

; APPLICANT: Keith G. Weinstock et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER

; FILE REFERENCE: 107196.135

; CURRENT APPLICATION NUMBER: US/09/252.691C

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/094,145

; PRIOR FILING DATE: 1998-07-24

; PRIOR APPLICATION NUMBER: US 60/074,787

; PRIOR FILING DATE: 1998-02-18

; NUMBER OF SEQ ID NOS: 11326

; SEQ ID NO 9285

; LENGTH: 232

; TYPE: PRT

; ORGANISM: Enterobacter cloacae

US-09-252-691C-9285

Query Match 56.9%; Score 41; DB 16; Length 232;

Best Local Similarity 62.5%; Pred. No. 51;

Matches 10; Conservative 1; Mismatches 3; Indels 2; Gaps 1;

Qy 1 GMTFRAQEG--AFLTG 14

Db 29 GVTFHLPQGEAFLTG 44

Search completed: March 25, 2003, 08:32:44

Job time : 147 secs

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